

## **STATEMENT OF WORK**

### **PART 1 - GENERAL**

#### **1.1 DEFINITIONS**

- A. AEDC: Arnold Engineering Development Center (Owner)
- B. Contractor: The company responsible for supplying the services and equipment described in this Specification
- D. Supplier: Any source of materials or premanufactured components purchased by the Contractor.

#### **1.2 RELATED DOCUMENTS**

- A. Contract Drawings, reference drawings and general provisions of Contract, including General Conditions and other Specification Sections, apply to this Section.

#### **1.3 PROJECT DESCRIPTION**

- A. The Project consists of the fabrication of two Roll Mechanisms with an option for a third (within 1 year from delivery of the first two) to be used interchangeably in PWT wind tunnels 16T and 16S at AEDC.

#### **1.4 CONTRACTOR'S SCOPE OF WORK**

- A. Contractor, having carefully examined the Contract Documents and being satisfied that they are fully understood, agrees to provide all labor, materials, tools, construction supplies, construction equipment, plant, services, safety, insurance, weather protection and to pay all taxes, permit costs, fees, and other costs necessary or required in the Contract Documents, to accomplish in a safe, timely, and workmanlike manner the WORK shown in the Contract documents, Technical Specifications herein and the drawings referenced in the Specification.
- B. The work shall include, but not limited to, material procurement, fabrication, assembly, shop testing, storing and delivery of the Roll Mechanisms. The following items are the scope of the supply:
  - 1. Roll Mechanism Assembly (Quantity of 2 or 3 depending on option)

C. Specifics of the Work shall consist of the following:

1. Provide additional design detailing, as required for manufacturing of parts.
2. Provide Quality Control Plan, Fabrication and Assembly Plans, and Shop Acceptance Test Plan. Acceptance Test Plan shall be developed in a joint effort with the Contractor.
3. Prepare and submit all documentation necessary related to fabrication of the Roll Mechanisms.
4. Support one design review at the Contractor's facility during the planning phase of the contract.
5. Forward four (4) copies of the following to AEDC for review and approval: Fabrication and Assembly Plan (Schedule), Quality Control Plan, Shop Acceptance Test Plan, and Monthly Progress Reports.
6. Fabricate components per contract drawings and perform Shop Acceptance Tests as specified in Section 11300 of the Technical Specifications.
7. Mark components, identify shims, and dowel as necessary for maximum efficiency of re-assembly at AEDC.
8. Clean components and coat machined surfaces with rust preventative and pack components to prevent damage or dimensional distortions during transit.
9. Provide spare parts according to the following list.
  - a. Main Bearings (3 sets)
  - a. Seals (3 sets)
  - b. Modified Harmonic Drive (4)
  - c. Anti-Backlash Gear and Spur Gear (3 sets)
  - d. Rexroth Hydraulic Motor (3)
  - e. Planetary Gear Box, Ratio 1:3 (3)
  - f. Fail-Safe Brake (3)
  - g. Sine/Cosine Encoder (3)
  - h. Rotary Limit Switch with 2:1 Gearhead (3)
  - i. SPS High Strength Fasteners (1 set)
  - j. Pinion Item 11 (3)
10. Ship parts to AEDC.

1.5 WORK NOT IN CONTRACTOR'S SCOPE

A. Site installation

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 – EXECUTION (NOT APPLICABLE)

**END OF STATEMENT OF WORK**